

Figure 1 is a schematic diagram of a multi-layered material structure. The structure is composed of two main horizontal sections separated by a wavy interface. The top section contains vertical columns with various rectangular features labeled 26, 27, 29, 40, 41, 44, 49, 50, 51, 52, and 55. The bottom section contains vertical columns with features labeled 28, 31, 44, 47, 50, and 52. Arrows A, B, C, and D indicate specific directions or forces applied to the structure.

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FIG.2

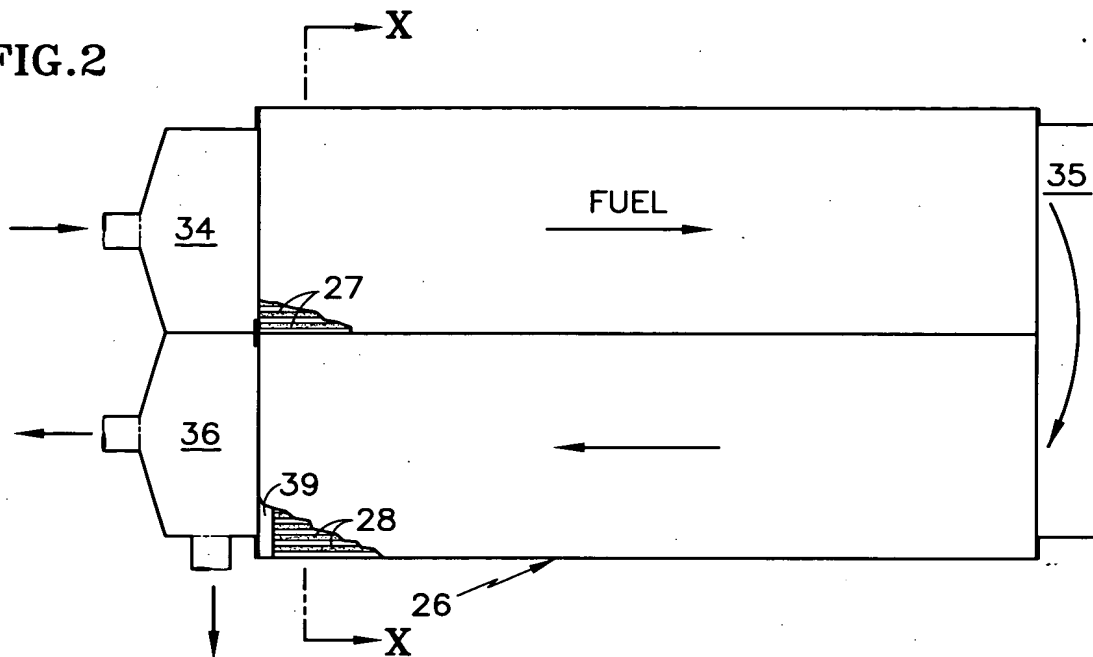
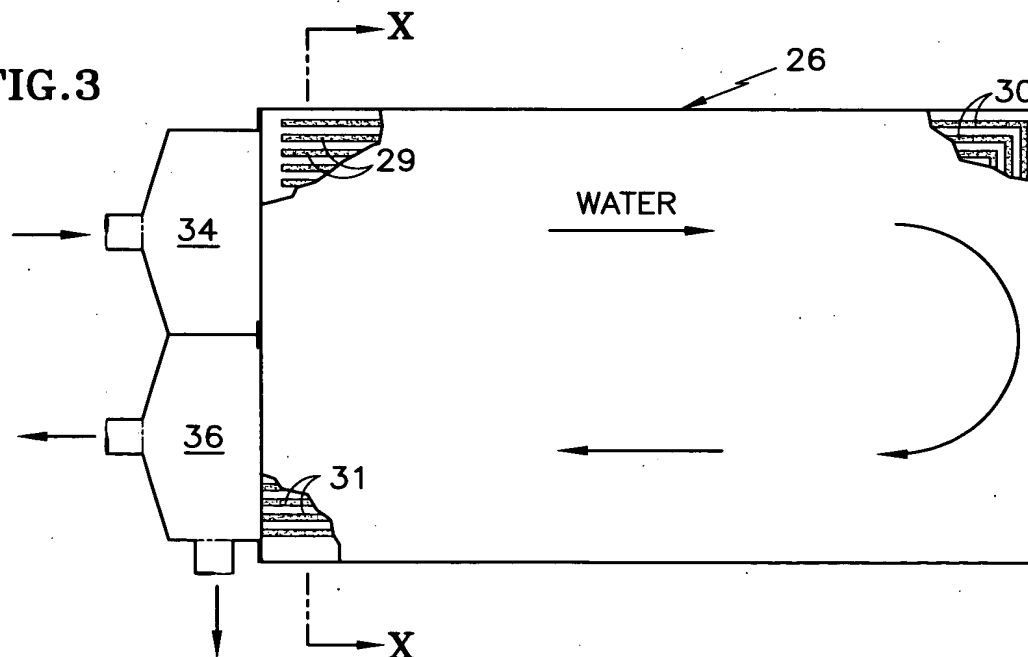


FIG.3



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FIG. 4

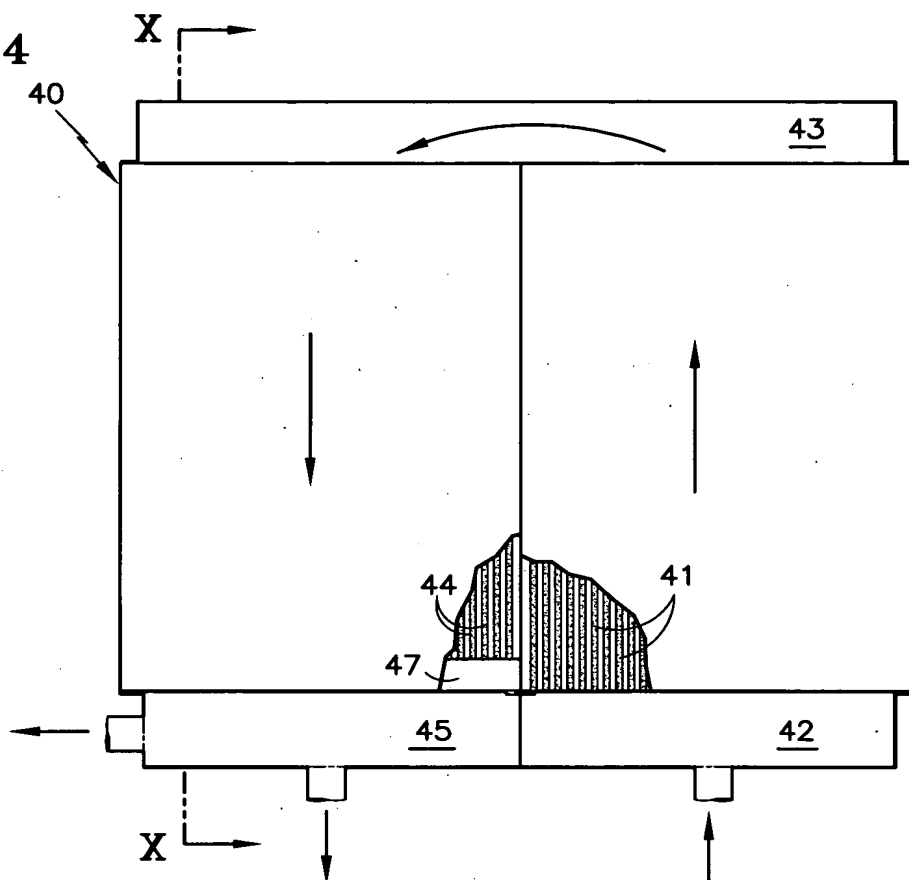


FIG. 5

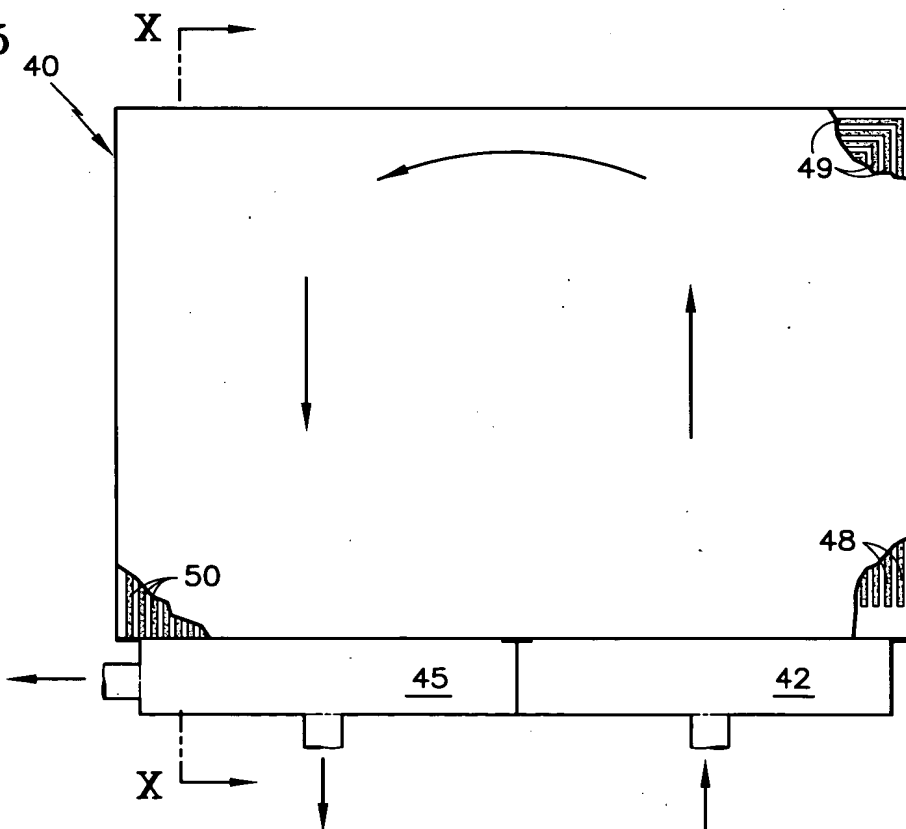


FIG. 6

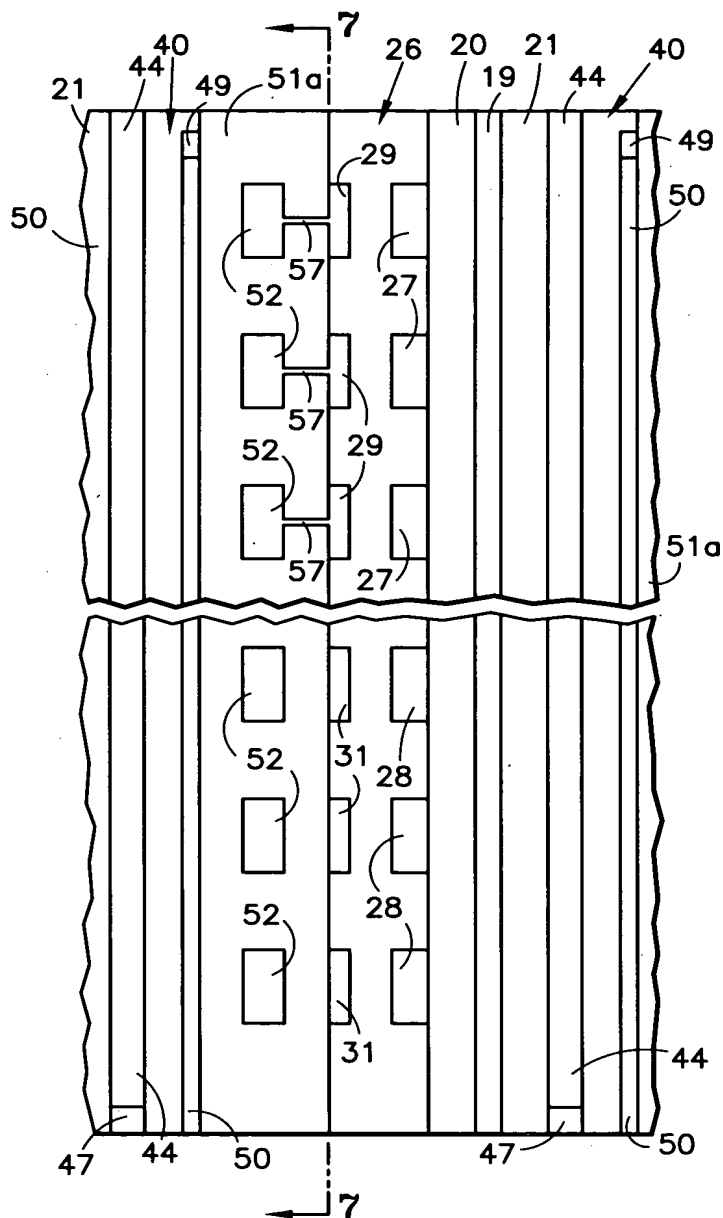
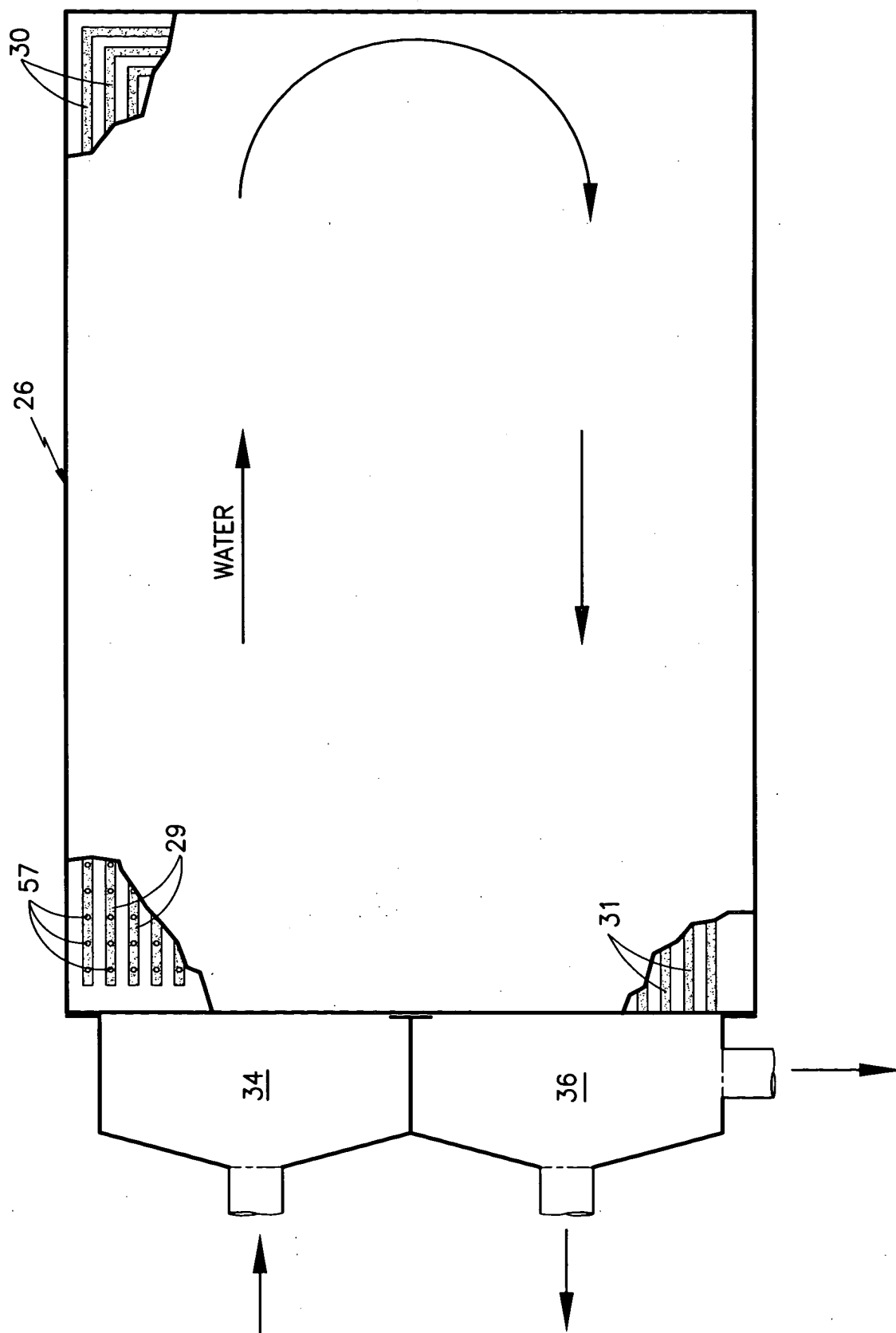


FIG. 7



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FIG. 8

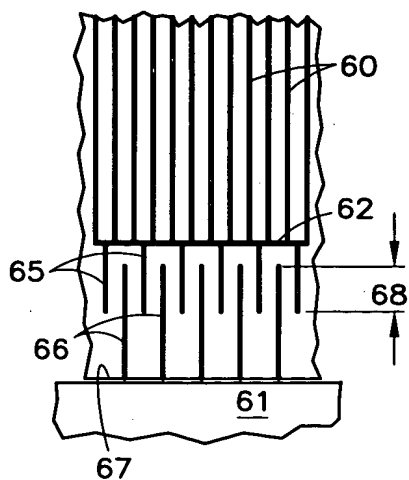


FIG. 9

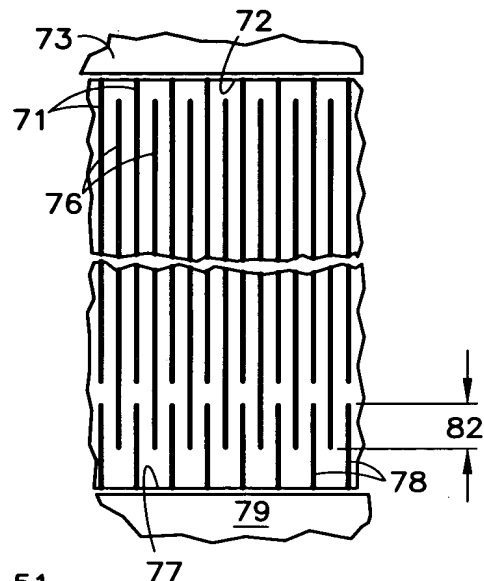


FIG. 10

